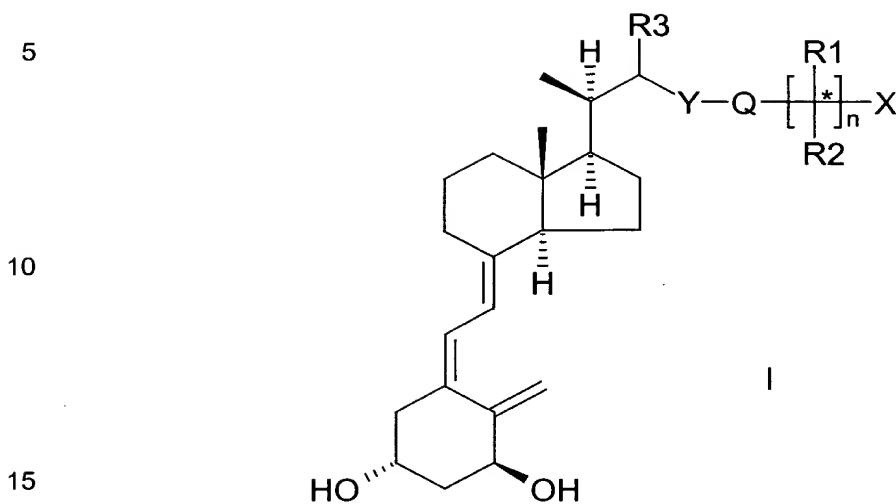


Abstract

Compounds of the formula I



wherein

20 X represents hydrogen or hydroxy;

Y represents oxygen or sulphur or oxidized sulphur selected from the groups S(O) and S(O₂);

R¹ and R², which may be the same or different, represent hydrogen or a residue after removal of 1 hydrogen atom from a straight, branched or cyclic, saturated or unsaturated, C₁-C₆-hydrocarbon; or R¹ and R², together with the carbon atom to which they are attached (marked with an asterisk in formula I), bearing the group X, form a C₃-C₈ carbocyclic ring;

Q represents a diradical residue after removal of 2 hydrogen atoms from a straight, branched or cyclic, saturated or unsaturated C₁-C₈-hydrocarbon;

R³ represents hydrogen or a residue after removal of 1 hydrogen atom from a straight, branched or cyclic, saturated or unsaturated C₁-C₆-hydrocarbon;

R¹, R² and/or Q is optionally substituted with one or more deuterium or fluorine atoms; and n is 0 or 1;

and derivatives of the compounds of formula I in which one or more hydroxy groups have been transformed into -O-acyl or -O-glycosyl groups, or a phosphate ester, such masked groups being hydrolyzable in vivo;

may be used for the preparation of a medicament for the treatment and/or prophylaxis of osteoporosis and related bone disorders.